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IS 4953 (1989): Wooden handles for hand hammers- [CED 9 :
Timber and Timber Stores]

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“Knowledge is such a treasure which cannot be stolen”



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IS 4953 : 1989
(Reaffirmed 1998)

Indian Standard

**WOODEN HANDLES FOR HAND
HAMMERS — SPECIFICATION**

(Second Revision)

UDC 674.75 : 621.972

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards on 15 March 1989, after the draft finalized by the Timber Stores Sectional Committee had been approved by the Civil Engineering Division Council.

The general requirements for wooden tool handles are covered by IS 620 : 1985 'Wooden tool handles, general requirements (*fourth revision*)'. A series of Indian Standards have been prepared for various hand tools, and for use with these hand tools, a series of Indian Standards for the corresponding wooden handles have been prepared and are being regularly revised. This standard deals with the wooden handles for hand hammers conforming to IS 841 : 1983 'Specification for steel hammers (*second revision*)'.

This standard was first published in 1968 and revised in 1973. In this revision, Table 1 indicating the dimensions of the handles has been completely revised by properly correlating the dimensions to the various types and nominal weights of hand hammers conforming to IS 841 : 1983.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***WOODEN HANDLES FOR HAND HAMMERS — SPECIFICATION***(Second Revision)***1 SCOPE**

1.1 This standard covers the requirements of wooden handles for hand hammers conforming to IS 841 : 1983 'Specification for steel hammers (second revision)' and IS 6546 : 1972 'Specification for claw hammers'.

2 REFERENCES

2.1 The following Indian Standards listed in Annex A are necessary adjuncts to this standard:

IS No.	Title
IS 620 : 1985	Specification for wooden handles, general requirements (fourth revision)
IS 707 : 1976	Glossary of terms applicable to timber technology and utilization (second revision)
IS 841 : 1983	Specification for steel hammers (second revision)
IS 6546 : 1972	Specification for claw hammers

3 TERMINOLOGY

3.1 For the purpose of this standard, the definitions given in IS 620 : 1985 and IS 707 : 1976 shall apply.

4 SPECIES OF TIMBER

4.1 The handles for hand hammers shall be manufactured from any of the timbers specified

for Class 1, 2 or 3 (depending on the length of handle) of IS 620 : 1985.

4.2 The blanks shall be well seasoned (preferably air seasoned) to a moisture content not exceeding 15 percent. They shall be fairly straight grained (inclination of grain not to exceed 1 in 20), free from centre heart (pith), any kind of decay (rot), any type of borer/insect attack, brashness, checks, shakes (except few hair cracks/shakes), split, warp, objectionable knots and sap-wood, except those permitted for finished handles in IS 620 : 1985. Any defects other than those listed above which are likely to adversely affect the life or utility of the handles shall not be permitted.

5 MANUFACTURE

5.1 The handles shall be manufactured from the selected blanks to the shape and sizes as shown in Fig. 1 and Table 1 respectively.

5.2 Unless otherwise specified by the purchaser, immediately after inspection, all accepted handles shall be thoroughly soaked in hot (about 90°C) raw linseed oil for one hour and allowed to drain. They shall be then be wiped clean with a dry piece of cloth.

6 DIMENSIONS AND TOLERANCES**6.1 Dimensions**

The handles shall conform to the dimensions as shown in Table 1.

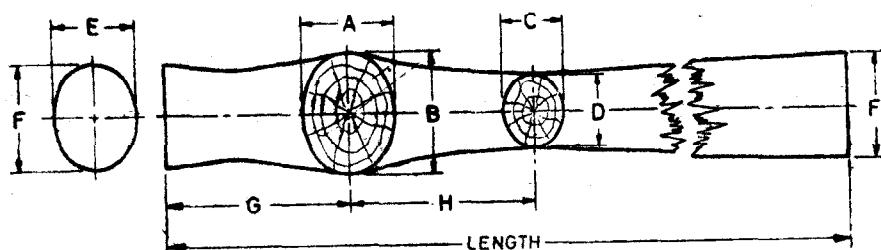


FIG. 1 TYPICAL SKETCH OF WOODEN HANDLE FOR HAND HAMMERS

Table 1 Dimensions of Wooden Handles for Hand Hammers

(Clauses 5.1 and 6.1)

Length	Dimensions of Handles								Type of Hammers (see IS 841 : 1983 and IS 6546 : 1972)
	E	F	A	B	C	D	G	H	
300	10	15	15	20	10	15	57	57	Engineer's ball pein 100 g Engineer's ball pein 200 g Engineer's cross pein 200 g
300	15	20	20	30	13	20	57	57	
300	15	25	20	30	13	20	57	57	
300 or 350	15	25	20	30	13	20	57	57	Engineer's ball pein 300 g Engineer's cross pein 300 g and 500 g Double face sledge 0.5 kg Cross pein and straight pein sledge 0.5 kg Stone breaker's 500 g Claw hammers 500 g Boiler scaling 500 g
300 or 350	20	30	25	35	15	25	60	60	Engineer's ball pein 500 g
300	20	30	25	35	15	25	60	60	Engineer's ball pein 600 g and 800 g and claw hammers 700 g
350	20	32	25	40	15	27	75	60	Engineer's cross pein 600 g and 800 g Stone breaker's 800 g Boiler scaling 800 g
350	20	35	25	40	15	27	75	60	Double face sledge 1 kg
350 or 400	20	35	25	40	15	27	75	60	Engineer's cross pein 1 kg Double face sledge 1.5 kg Cross pein and straight pein sledge 1 kg and 1.5 kg Stone breaker's 1 kg Spiking and keying 1.5 kg
400	25	35	29	40	20	27	75	75	Double face sledge 1 kg Cross pein and straight pein sledge 2.0 kg and 2.5 kg Spiking and keying 2.0 kg Keying 2 kg
400 or 750	25	35	29	40	20	27	75	75	Double face sledge 2 kg and 2.5 kg Cross pein and straight pein sledge 3 kg, spiking and keying 3 kg
450	25	45	30	50	20	38	100	75	Double face sledge 3 kg Cross pein and straight pein sledge 3.5 kg
450 or 750	25	35	29	40	20	27	75	75	Double face sledge 3.5 kg Cross pein and straight pein sledge 4 kg, spiking 4 kg
600	25	45	30	50	20	38	125	125	Double face sledge 4 kg Cross pein and straight pein sledge 4 kg, spiking 4 kg
600 or 750	25	45	30	50	20	38	125	125	Double face sledge 5 kg and 6 kg, Cross pein and straight pein sledge 5 kg and 6 kg
750	30	45	32	50	24	35	125	125	Double face sledge 8 kg and 10 kg, Cross pein and straight pein sledge 8 kg
900	30	45	30	45	24	35	150	150	
900	30	50	35	55	24	40	150	150	

6.2 Tolerances

The following tolerances shall be permissible:

a) On dimensions *A*, *B*, *E*

and *F* of Fig. 1 :

$\begin{array}{c} +3 \\ -0 \end{array}$ mm, and

b) At all other places ± 2 mm

7 OTHER REQUIREMENTS

7.1 Workmanship and finish, permissible defects (in addition to those given in 4.2), tests, moisture

content of finished handles shall be as specified in IS 620 : 1985.

8 SAMPLING

8.1 The method of drawing representative samples and criteria for conformity shall be as prescribed in IS 620 : 1985.

9 MARKING

9.1 Unless specified otherwise, each handle shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade mark and the year of manufacture.

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